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A SOFTWARE SYSTEM ORIENTED TO FUZE TESTING (SOSOFT)

> by Donald A. Link David J. Buscher

> > June 1970

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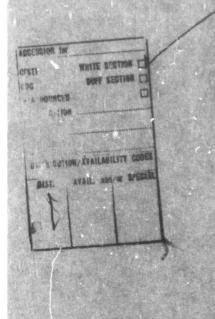
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Donald A. Link
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# ABSTRACT

Software techniques used in an automated real-time fuze testing system are discussed. Most of the techniques are independent of the electrical circuit being tested and the computer controlling the system. Although the software described was initially designed for testing the XM596 proximity fuze, only the actual fuze testing programs need be specifically designed for a given testing system. The programs comprising SOSOFT are functionally organized into eight major subsystems-real-time priority scheduling system, interrupt servicing system, input/output control system, executive utility system, basic testing system, data-display system, conversational control system, and reliability monitoring system.

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#### 1. INTRODUCTION

The Software System Oriented to Fuze Testing (SOSOFT) is a collection of computer programs designed to provide a real-time capability for in-line and final testing of fuzes built on an automated assembly line. The system considered here was prepared specifically for the XM596 proximity fuze, employing a Varian Data 620/i digital computer.

The programs comprising SOSOFT are functionally organized into the eight major subsystems listed below.

- (1) Real-Time Scheduling System--monitors time sharing of the computer's central processor on the basis of a user-defined priority scheme.
- (2) Interrupt Servicing System--services hardware interrupts on a priority basis.
- (3) Input Output Control System--monitors all input and output operations involving computer peripherals.
- (4) Executive Utility System--provides various services required by more than one program, such as input/output operations involving non-computer hardware.
- (5) Basic Testing System--conducts the individual fuze tests, processes the results, and makes decisions as to the immediate and long-term success of the assembly operation.
- (6) Data-Display System--provides formatted output of statistical data and test results.
- (7) Conversational Control System--monitors system communication with the operator on a real-time basis, allowing him to display and change many system parameters.
- (8) Reliability Monitoring System--monitors conditions capable of decreasing system reliability and takes appropriate action when such conditions occur.

Except for subsystems 5, 6, and 8, SOSOFT is a generally applicable real-time data acquisition system. The following discussion keeps SOSOFT divorced from the Varian 620/i and the XM596 as much as possible. The techniques employed could easily be reproduced for a different digital computer; systems 5, 6, and 8 could easily be adapted to test a different fuze or a different electrical circuit. In addition, most of the hardware designed for the XM596 automatic fuze testing system could easily be adapted to another computer and testing of a different circuit.

Specific nomenclature used in this report is defined in appendices A through D--computer science terminology (p. 43), SOSOFT terminology (p. 47, abbreviations (p. 49), and SOSOFT program names (p. 51).

#### 2. FUNCTIONAL DESCRIPTION OF SUBSYSTEMS

#### 2.1 Real Time Scheduling System (RETI)

RETI serves as a programmed "answering service" and "traffic controller" for SOSOFT, servicing all calls made by other system programs which have requested control or release of control of the computer's central processing unit (CPU), and controlling the order in which these requests are honored. This order is dictated by a programmed-priority scheme designed by the system's user, whereby each of his programs is separately assigned a software priority, and control is allocated among these programs by applying this simple rule: the program of highest priority desiring control is given control of the CPU until (1) it releases control, or (2) it is no longer of highest priority. Programs of equal priority are given control on a first-come first-served basis.

The capability of scheduling programs subject to conditions existing apart from the computer (e.g., assembly line) is provided by a system of hardware priority interrupts. These interrupts provide the system with a real-time clock and a means for externally cueing programs into activity. These interrupts are serviced by the interrupt servicing system, but cognizance of their existence is essential in understanding RETI functioning.

The RETI can be separated into three main parts: (1) the active list, (2) the waiting list, and (3) the program information block.

# 2.1.1 Active List (AL)

The AL is a list of programs desiring control of the CPU, ordered according to program priority. The program of highest priority is first on the list, thus, referred to as head of the list.

# 2.1.2 Waiting List (WL)

The WL is a list of programs desiring control of the CPU after a specified delay time. The list is ordered on a first-come basis. The first and last programs on the list are of special importance and are referred to as the head and the end of the list, respectively.

After the specified delay has elapsed for a program, it is removed from the WL and placed on the AL commensurate with its priority.

#### 2.1.3 Information Block (IB)

Each user-supplied program contains an ordered set of data required by RETI. This block of data is called its information block (IB) and contains the following:

- (1) Program Number, a non-negative integer less than 32,768 assigned by the user as the program's reference number. Each program is assigned a unique program number.
- (2) Program Priority, a non-negative integer less than 32,768 assigned by the user as the program's software priority, with a priority of 0 being lowest and 32,767 being highest.
- (3) Initial Entry Point, the address where execution of the program initially begins. This entry point remains constant.
- (4) Current Entry Point, the address where execution of the program will continue the next time the program is given control.
- (5) Next AL Pointer, containing the first word address (FWA) of the IB of the next program on the AL-next, meaning of less than or equal priority. A value of -1 indicates that this program is last on the AL.
- (6) <u>Previous AL Pointer</u>, containing the FWA of the IB of the previous program on the AL-previous, meaning of greater than or equal priority. A value of -1 indicates that this program is first on the AL.
- (7) AL Entry Time, the time at which the program was added to the AL.
- (8) Next WL Pointer, containing the FWA of the IB of the next program on the WL. A value of -1 indicates that this program is last on the WL.
- (9) Previous WL Pointer, containing the FWA of the IB of the previous program on the WL. A value of -1 indicates that this program is first on the WL.
- (10) Recall Time, the time at which the program is to be removed from the WL and returned to the AL.
- (11) Stack, a contiguous group of memory locations where the contents of the computer's hardware registers and overflow (OF) indicator are saved upon interruption of the program's execution so that when execution continues at a later time, the hardware state of the CPU can be restored. This area is also called the program's STAK.

The location of each program's IB is contained in the information block entry table (IBET). IBET is ordered by program number, so that entry i is the first word address of program i's IB.

RETI has three pointers--HAL, HWL, and EWL--that contain the FWA's of the IB's of the programs occupying the head of the AL, the head of the WL, and the end of the WL. A value of -1 for any of these pointers indicates that the corresponding list is empty.

# 2.1.4 Sequence of Execution

RETI provides the following three basic schedular entry points that permit the system user to control program execution:

- (1) \$EXIT -- terminates calling program's execution,
- (2) \$AAL- adds a specified program to the AL, and
- (3) \$ALWL--transfers calling program from the AL to the WL with a specified delay.

These routines require four basic operations:

- (1) Add a program to the AL (fig.1).
- (2) Remove a program from the AL (fig. 2).
- (3) Add a program to the WL (fig. 3).
- (4) Remove a program from the WL (fig. 4).

Detailed flow charts showing how each of these operations is performed are shown in figures 1 through 4.

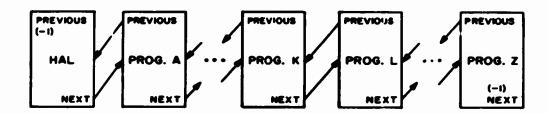
The normal sequence of execution for a user's program is as follows. The program is given control at its initial entry point. Every millisecond its control is temporarily interrupted by the hardware clock. During this interruption, the hardware state of the CPU is saved in the program's STAK, its current entry point is set to the point of interruption, the software system clock is incremented, and the WL is scanned, at periodic clock interrupts, for any programs whose requested delay has elapsed. If any such program is found, it is removed from the WL and placed on the AL, commensurate with its priority. If this program's

(continued on p. 17)

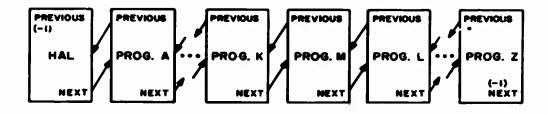
<sup>\*</sup>To distinguish between SOSOFT executive programs and user-written programs, the names of executive programs are preceded by a \$.

The following four diagrams illustrate the effect of adding programs to the Active List.

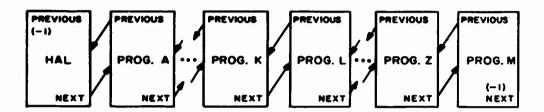
Assume that the AL appears as follows:



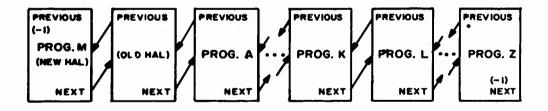
If program L is the first program on the AL whose priority is less than that of program M, program M's addition to the AL would change the AL as follows:



If program M's priority is less than or equal to the priorities of all programs on the AL, its addition to the AL would change the AL as follows:



If program M's priority is greater than HAL's priority, its addition to the AL would change the AL as follows:



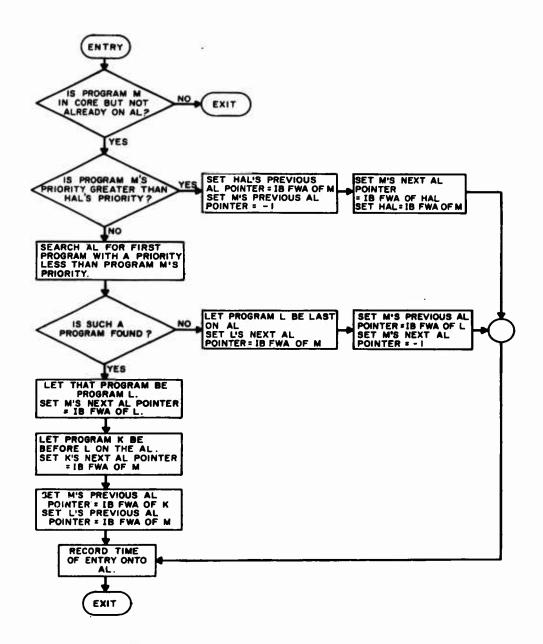


Figure 1. Addition of program M to active list.

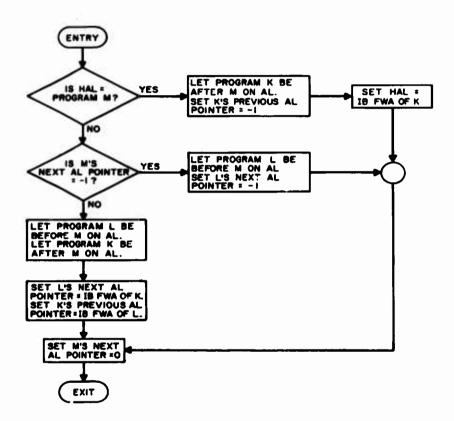


Figure 2. Removal of program M from active list.

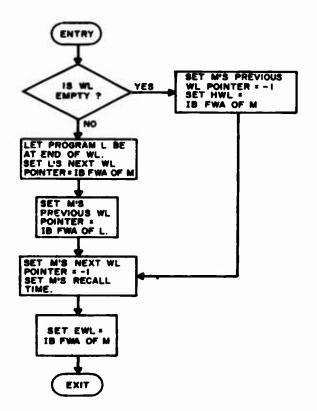


Figure 3. Addition of program M to waiting list.

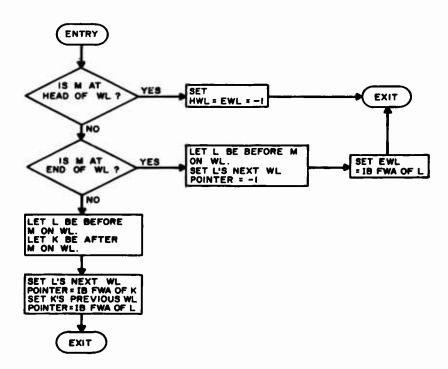


Figure 4. Removal of program M from waiting list.

priority is less than or equal to that of the interrupted program, control is returned to the interrupted program at the exact point of interruption with the registers and OF indicator reset as they were.

When the program has finished its execution, it executes an EXIT call to the system and is removed from the AL. Then control is given to the next program on the AL.

However, if the priority of the program being added to the AL is greater than that of the temporarily interrupted program, the new program will take control until it is finished, or until it loses control to another program of still higher priority.

If a program wishes to keep control unconditionally, it can increase its own priority, so that no other program in the system has a greater priority. Then as programs are added to the AL, they will necessarily be added after the program of highest priority. After the time for unconditional control has elapsed, the program can again lower its priority to the original value, allowing other programs to get control.

The exact manner in which the clock and other hardware interrupts are serviced is discussed in detail in section 2.2.

#### 2.2 Interrupt Servicing System (ISSY)

ISSY is designed to service all hardware interrupts being employed by SOSOFT. The Varian 620/i is equipped with a set of eight priority interrupts in a single module called the PIM, and an independent power fail/restart interrupt. SOSOFT employs three of these nine interrupts for the following function in order of priority: (1) power fail/restart, (2) real time clock, and (3) test station scanner.

#### 2.2.1 Power Fail-Safe Interrupt Processor (\$PFL)

\$PFL is designed to react to power failures in a manner that minimizes the amount of information lost or distorted. Immediately upon receiving a power-fail interrupt, \$PFL saves the present hardware status and halts the computer. When a continue signal is received, the system programs are adjusted so that only the information concerning the fuzes being tested at the time of the power failure is lost, the hardware status is restored, and testing continues normally with the next fuze at each test position.

# 2.2.2 Real-Time Clock Interrupt Processor (\$CIP)

\$CIP processes clock interrupts which occur once every millisecond. Time is kept by incrementing a two-word counter in the computer's memory at each interrupt. At a specified time interval (specified by a system parameter), \$CIP also searches the waiting list (WL) for any programs whose specified delay time has elapsed. If any such program is found, it is removed from the WL and added to the active list (AL), commensurate with its priority.

# 2.2.3 Test Station Scanned Interrupt Processor (\$SIP)

The test station scanner periodically examines each test point on the assembly line to determine whether or not a new fuze has been automatically positioned there. If one has, the scanner stops, containing a count equivalent to the test point address and produces a priority interrupt. \$SIP then inputs this count, converts it into the program number of the test program associated with that test point, and adds the associated program to the AL. In this way, test programs are externally queued onto the AL by way of the scanned interrupts.

When an interrupt is received, the associated processing program saves the status of the CPU and the address of the next instruction to be executed at the instant of the interrupt. Upon completion of processing, each routine restores the CPU status and returns control to the proper point in the interrupted program. Effectively, the interrupted program has no indication that it actually temporarily lost control of the computer.

Since most functions of system programs (those not assigned a program number and not containing an IB) are of high priority, these programs always disable the priority interrupts upon start of execution and reenable them upon completion of execution. For this reason, system programs have been designed to execute as rapidly as possible, to minimize the noninterruptible execution time of the system. As presently designed, all interrupts are acknowledged in less than 1 msec.

#### 2.3 Input/Output Control System (IOCS)

IOCS is designed to provide SOSOFT users with a flexible, efficient means for accomplishing various input/output (I/O) tasks involving the 620/i computer peripheral equipment. This equipment consists of an ASR-35 teletype (TTY), a high-speed paper tape reader (PTR), a high-speed paper tape punch (PTP), and a line printer (LPR). For each type of I/O operation to be performed, IOCS provides a separate I/O driver. The available drivers are:

No. O. TTY Character Input Driver (\$TTI)

- No. 1. TTY Character Output Driver (\$TTO)
- No. 2. PTR Character Input Driver (\$PTI)
- No. 3. PTP Character Output Driver (\$PTO)
- No. 4. LPR Character Output Driver (\$LPO)
- No. 5. Binary Input Driver (\$BIN)
- No. 6. Binary Output Driver (\$BOT)

Character mode transfers involve 8-bit words in ASC II code. Binary-mode transfers involve 8-bit words in binary form.

Drivers are designed to perform complete I/O transfers of any length for the user. This frees the user's programs from the worry of controlling I/O devices and saves considerable memory by allowing many different programs to share the same drivers. The user needs only to specify the type of transfer to be performed and provide either the data to be output or a reserve buffer area into which data will be input. The driver will then independently perform the operation and notify the user when it has been completed. The user may elect to wait for completion, or to continue to run during the actual transfer.

IOCS provides a software interface between the user's programs and the I/O drivers, called the I/O controller (\$IOC). \$IOC processes all user requests for I/O transfers, determines which driver should be employed, checks that driver's availability, and sees that control is returned to the user at the specified time. To accomplish these functions, \$IOC must be provided with two pieces of information:

- (1) The logical unit number, and
- (2) The recall mode.

# 2.3.1 Logical Unit Number

Since various devices can perform the same type of data transfer, it is sometimes useful for the user to specify the type of transfer he wishes to do, independent of device. However, in some instances the device used is of great importance. Both situations are serviced by the use of logical unit numbers.

A logical unit is simply a non-negative number to which the system has associated a particular I/O driver. This association is subject

to change by reprogramming or by program alteration during execution. As many logical units as desired can be defined. The actual associations are defined in the logical unit table (\$LUT). The nth entry in this table contains the driver number associated with logical unit n. Hence, if entry 4 contains a 1, logical unit (LU) 4 specifies driver #1--the TTY character output driver. A user wishing to always perform character output to the teletype could specify that LU 4 always remain fixed at 1. However, if character output to the line printer would also be acceptable, LU 4 could be set at either a 1 or a 4. Then, depending on exactly how entry 4 in \$LUT was set, a request for a data transfer involving LU 4 could result in character output to either the TTY or the LPR.

The logical unit approach to a driver designation also provides for shutdown of a device during execution. For example, if LU 1 is set to the line printer character output driver, and the line printer develops a malfunction, the system could be instructed to temporarily change LU 1 to an alternate driver, like the PTP character output driver, and the line printer develops a malfunction, the system could be instructed to temporarily change LU 1 to an alternate driver, like the PTP character output driver. In this way, output would be saved on an alternate medium, and could be transferred to the line printer at a later time. Alternatively, the LU 1 entry in \$LUT could be set negative, which implies that LU 1 is an illegal designation. This would prohibit further outputs to the line printer until it is repaired at which time LU 1 could again be reset to the printer.

#### 2.3.2 Recall Mode

\$IOC provides two ways for the user to be recalled after requesting an I/O operation. The first is to activate the driver and immediately recall the user's program. This is called an immediate recall and is specified by a negative recall mode. The second is to wait until the requested I/O transfer has been completed and the driver has terminated its execution before recalling the user's program. This is called a terminate recall and is specified by a positive recall mode.

In addition to the logical unit and recall mode designations needed by \$10C, each driver needs information concerning the nature of the specific I/O transfer to be performed. All this information is stored in a particular order in the user's program and is collectively called a driver parameter block (DPB).

# 2.3.3 Driver Parameter Block (DFB)

A DPB contains all information needed by \$IOC and the indicated driver to perform the specified I/O transfer. Since different

drivers may require different amounts and kinds of information, a DPB can vary in size and content. However, certain information must always be present in all DPB's. For this reason, the first five entries in a DPB are fixed in order and content as follows:

Entry 1--Logical unit number

Entry 2 -- Recall mode

Entry 3--Driver operation code

Entry 4--Status word

Entry 5--Buffer area FWA

The driver operation code indicates to the driver exactly what kind of transfer to perform. Each driver has its own set of legal operation codes.

The status word is used to indicate to the user's program the status of his requested transfer. Both \$IOC and the drivers use this word to communicate with the user's program. The following status codes are currently employed:

- O--Driver is busy processing the user's request.
- 1--Request has successfully been completed.
- -1--I/O device involved in transfer has responded busy abnormally; transfer has been aborted.
- -2-- Indicated operation code (Op Code) is illegal.
- -3--Logical unit designation or driver number is illegal.

The buffer area FWA contains the starting address of a storage buffer with data to be output or memory reserved for the input.

To request an I/O transfer the user need only call \$IOC, indicating the FWA of the associated DPB, and a busy address to which \$OIC will return control if the driver associated with the specified DPB is busy performing some other transfer (either for this or another user's program). In this way, the user's program can respond to a busy driver in any manner it wishes by specifying the required busy address. Figure 5 shows how \$IOC processes I/O requests.

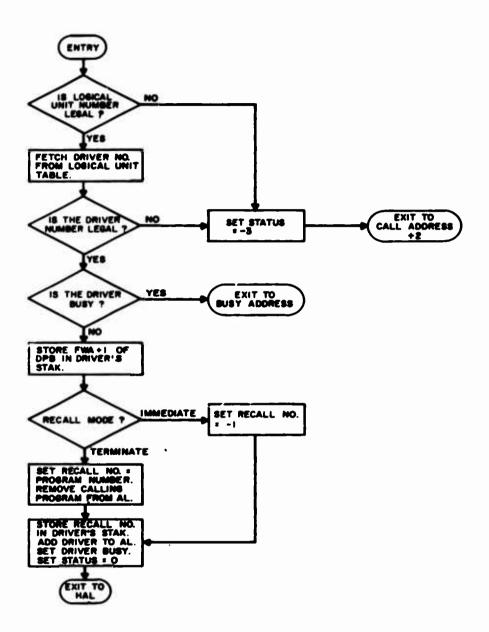


Figure 5. Input/output request processing.

\$100 uses the busy flag table (\$BFT) to store the ready/busy status of each driver in order of driver number. When a driver is called into action, its flag is set busy; and when the driver terminates its action, its flag is reset to ready.

It is important to note that \$IOC passes two pieces of information to the driver: the DPB FWA + 1, enabling the driver to have access to needed information concerning the requested transfer; and a recall number, which the driver will later return to \$IOC. Upon completion of a transfer--successful or not--each driver calls the termination portion of \$IOC, called \$IOT, specifying its driver number and the recall number for the transfer just completed. \$IOT then sets the driver not busy, removes it from the active list, and, if the recall number is positive (say n), recalls program n onto the active list--that is, it performs a terminate recall.

Following is a detailed discussion of each I/O driver currently employed by SOSOFT.

# 2.3.4 Teletype Character Input Driver (\$TTI-#0)

\$TTI inputs characters in ASC II code from the teletype keyboard and stores them in a user specified buffer area. On entry into \$TTI, two hardware registers contain the recall number and the location of the DPB. These are saved in memory for later use. \$TTI assumes that the DPB has the following format:

- (1) Logical unit
- (2) Recall mode
- (3) Op code
- (4) Status
- (5) Buffer FWA
- (6) Maximum number of words to transfer

Entry 6 indicates the maximum number of words the user wants input to his buffer. As soon as that number of words have been input, \$TTI will stop the input and exit.

\$TTI accepts two op codes. An op code of 1 indicates that the input characters should be stored two per word, with the first character in the left half of the word. An op code of 2 indicates that the input characters should be stored one per word, with the character in the right half of the word and zeros in the left half.

During the input process, certain characters are recognized as control characters and are not stored in the user's buffer; instead, these indicate special actions to the driver, itself. These characters and the associated actions are:

- (1) RUBOUT deletes all previous input, and requests new input.
- (2) SEMICOLON causes a return and line feed to be output to allow the input to continue on a new line.
- (3) RETURN terminates the input and causes the driver to exit.

\$TTI always indicates its readiness to accept input by outputting a return, line feed, I, space, and bell to the TTY.

The status word is set as follows:

- (1) If the input operation is successful, status = 1.
- (2) If the TTY is found to be invalidly busy on output, status = -1.
- (3) If the op code is other than 1 or 2, status = -2.

#### 2.3.5 Teletype Character Output Driver (\$TTO - #1)

\$TTO outputs characters in ASC II code to the teletype from a user-specified buffer area. On entry, the recall number and DPB location are saved. The DPB is assumed to be in the following format.

- (1) Logical unit
- (2) Recall mode
- (3) Op Code
- (4) Status
- (5) Buffer FWA
- (6)\*Number words to output

<sup>\*</sup>Entry 6 is optional.

\$TTO will output either a specified number of words or all words, beginning at the buffer FWA and up to the first word in the buffer containing all zeros. Also, a return, line feed output preceding the output of the buffer is optional. These options are specified by the user's op code as follows:

- 1 Indicates to output from buffer until a zero word is found.
- 2 Indicates to output the specified number of words from the buffer.
- 3 Indicates same as 1, except to precede output with a return, line feed.
- 4 Indicates same as 2, except to precede output with a return, line feed.

\$TTO will properly output characters stored either 1 or 2 per word.

The status word is set as follows:

- (1) If the output operation is successfully completed, status = 1.
- (2) If the teletype is found to be invalidly busy, status = -1.
- (3) If the op code is other than 1, 2, 3, or 4, status = -2.

# 2.3.6 Line Printer Character Output (\$LPO - #4)

\$LPO outputs characters in ASC II code to a line printer from a user specified buffer. On entry, the recall number and DPB position are saved. The DPB is assumed to be in the following format:

- (1) Logical unit
- (2) Recall mode
- (3) Op code
- (4) Status
- (5) Buffer FWA, or repeat character

- (6) Number of words to output, or repeat count (optional)
- (7) Column in which to begin output (optional)

\$LPO will output either a specified number of words from the buffer or will output until a word containing all zeros is found. If actual character output is specified by the user, the column in which that output should begin also needs to be specified. Output may or may not be preceded by a line feed. These various options and others are specified by the user's op code as follows:

- 1 Indicates to output from buffer until a zero word is found, beginning at the specified column.
- 2 Indicates to output the specified number of words from the buffer, beginning at the specified column.
- 3 Indicates the same as 1, except output is preceded by a line feed.
- 4 Indicates the same as 2, except output is preceded by a line feed.
- 5 Indicates to output a top of form command to the printer.
- 6 Indicates to output the repeat character (DPB entry #5) the specified number of times (repeat count), beginning at the specified column.

\$LPO outputs characters stored either 1 or 2 per word. Each output is terminated with a carriage return, causing the printer buffer to be printed.

The status word is set as follows:

- (1) If the output is successfully completed, status = 1.
- (2) If the printer is found to be invalidly busy, status = -1.
- (3) If the op code is other than 1-6, status = -2.

All drivers have been designed to perform data transfer at the maximum possible rate, by utilizing the SOSOFT waiting list to wait the correct time between characters as a function of device speed.

#### 2.4 Executive Utility System (EXUS)

EXUS consists of all programs commonly used by various user programs. These are classified as system programs and, consequently, do not contain an IB or program number. As is true for all system programs, interrupts are also disabled during the execution of executive utility routines. EXUS consists of the following utility routines:

- (1) \$SAV Saves CPU status and current entry point of HAL for the calling program.
- (2) \$RES Restores CPU status of HAL and jumps to its current entry point.
- (3) \$TDP Processes all data for the test system programs.
- (4) \$ADC Inputs and processes a single analog-to-digital converter channel.
- (5) \$CWD Outputs a control word to the testing system interface.
- (6) \$DIN Inputs data from the testing system interface.
- (7) \$DIC and \$SEN Input data from the testing system's digital input channels and sense lines.
- (8) \$BUF and \$REL Output data to the testing system's buffered storage registers and reed relays.
- (9) \$SPO Provides a software interface between user programs and the data display system.
- (10) \$TIME Converts the current time to hours and minutes.
- (11) \$BCD Converts binary numbers to ASC II code of any designated radix.
- (12) \$VCD Converts an ADC input to ASC II characters representing volts, accurate to 20 mV.
- (13) \$SGN Converts a binary number to a signed five-digit decimal number in ASC II code.
- (14) \$CAT Performs necessary catastrophic failure procedures.

Following is a detailed discussion of each of these executive utility routines.

# 2.4.1 Utility Routine Number 1 (\$SAV)

\$SAV stores the contents of all hardware registers and the overflow indicator in HAL's IB, and sets HAL's current entry point to the contents of the entry point in the routine calling \$SAV. Also, \$SAV assumes that its caller's entry point is located two memory locations prior to the actual call to \$SAV.

#### 2.4.2 Utility Routine Number 2 (\$RES)

\$RES restores the hardware registers and overflow indicator from HAL's IB, and returns control to HAL's current entry point.

#### 2.4.3 Utility Routine Number 3 (\$TDP)

\$TDP (test data processor) processes data for the testing system. The calling program must pass certain information to \$TDP to aid in this processing. Of most importance is the raw data to be processed. In addition, the location of certain information required by \$TDP must be provided. Given this information, \$TDP

(1) Linearly calibrates the raw data as follows:

let S = specified system output with a + reference
 voltage as an input.

B = specified system output with a zero reference voltage as an input.

s = current system output with + reference as input.

b = current system output with zero reference as input.

d = raw data to be calibrated.

c = calibrated data,

then

$$c = \frac{(S-B) \times (d-b)}{(s-b)} + B$$

- (2) Resets certain lot-dependent data if the input represents the beginning of a new sample lot.
- (3) Determines which cell within a frequency distribution the calibrated datum falls into, and increments the frequency count corresponding to that cell.
- (4) Checks if calibrated datum falls within acceptable test limits--that is, it decides if datum passes or fails.
- (5) Updates certain failure data, if the datum fails.
- (6) Returns calibrated datum and a pass/fail indicator to the calling program.

# 2.4.4 Utility Routine Number 4 (\$ADC)

\$ADC inputs and processes a single reading of an ADC channel at one testing station. This is done by first outputting a control word to the station by calling \$CWD, indicating that an analog-to-digital conversion is desired. Then \$DIN is called to input the actual \$ADC reading. If no processing is desired, \$ADC returns the raw data to the calling routine; otherwise, \$TDP is called to process the data, and \$ADC returns the calibrated data to the calling routine.

If the input from the testing system interface does not occur properly, \$ADC will return control to the calling program at a specified location, informing the caller that the ADC channel is responding busy. Also, if the input datum "fails" in \$TDP, \$ADC will return control to another specified location, informing the caller of this fact.

#### 2.4.5 Utility Routine Number 5 (\$CWD)

\$CWD outputs control words to the testing system interface if possible. If the interface responds busy for longer than a specified time (presently 100 µsec), \$CWD reacts by continually outputting an error signal to the operator. When the operator has taken the necessary corrective action, \$CWD calls \$CAT which sets all test system programs to restart at a special location, informing them that this catastrophic failure has occurred. If the interface responds ready within the specified time, the control word sent by the calling routine is output, and \$CWD returns control to the caller.

# 2.4.6 Utility Routine Number 6 (\$DIN)

\$DIN inputs data from the testing system interface when possible. If the interface responds busy for longer than a specified time (presently 100  $\mu$ sec), \$DIN returns control to the calling routine at a special location, informing it of this error. Otherwise, \$DIN inputs the data, and returns control to the calling routine.

# 2.4.7 Utility Routine Number 7 (\$DIC or \$SEN)

\$DIC inputs data from a testing system digital input channel. This is done by outputting a control word via \$CWD and inputting the data via \$DIN. The testing system sense lines are a particular set of digital input channels.

# 2.4.8 Utility Routine Number 8 (\$BUF or \$REL)

\$BUF outputs data to a testing system buffered storage register. This is done by outputting a control word containing the data via \$CWD. The testing system reed relays are a particular set of buffered storage registers.

# 2.4.9 Utility Routine Number 9 (\$SPO)

\$SPO provides the means for user program communication with the data display system. The calling program informs \$SPO of the nature of the data display desired. Then \$SPO checks the status of the display system. If the system is ready to perform another display, \$SPO passes the needed information to the system, and returns control to the calling program. If, however, the display system is busy processing a previous request, \$SPO returns control to the calling program at a particular address, informing it that the request can not be processed at this time. The caller can then either continue with some other operation or can continue calling \$SPO until the request is accepted.

#### 2.4.10 Utility Routine Number 10 (\$TIME)

\$TIME converts the master clock (msec counter) into hours and minutes. This time is then added to the time in hours and minutes at which the system was initialized. The result is then returned to the user. The calculation is accurate to within 1 min.

#### 2.4.11 Utility Routine Number 11 (\$BCD)

\$BCD converts a user-specified binary number to ASC II code. The number of digits and the radix of the result are user specified. The result is stored two digits per word. If the number of digits desired is odd, one word will contain a single digit in one half and zeros in the other half.

Since \$BCD is employed by the data display system to convert frequencies, which are biased by -32,768, the user can specify that the number to be converted is so biased. Unbiased numbers can result in values from  $0_{10}$  to  $32,767_{10}$ . Biased numbers can result in values from  $0_{10}$  to  $65,535_{10}$ . Unsignificant leading digits are set to zeros.

#### 2.4.12 Utility Routine Number 12 (\$VCD)

\$VCD is used to convert analog-to-digital converter inputs to ASC II code, representing the input in volts, accurate to 20 mV. The result of the conversion is three words of the form  $\pm DD$ .DD, where D is a single decimal digit. Positive voltages are preceded by a space, negative voltages by a minus sign. The range on inputs is  $0_8$ -17778; the corresponding range on converted values is -10.24 to 10.22 V.

#### 2.4.13 Utility Routine Number 13 (\$SGN)

\$\$GN is used to convert a user specified binary number to a signed five-digit decimal number in ASC II code. This routine uses \$BCD.

#### 2.4.14 Utility Routine Number 14 (\$CAT)

\$CAT is called to handle any catastrophic failure action. It sets all current entry points of test programs on the Active List to their corresponding fail reentry points.

#### 2.5 Basic Testing System (BATS)

The SOSOFT subsystem that controls the fuze testing operation is BATS. At various points along the assembly line, test points have been set up for in-line testing in addition to the final testing point. Each in-line test position and the final test are controlled by a separate test program. The present system incorporates three in-line test points. The associated programs are called test programs 1 through 3. The final testing program is called test program 4.

Each test program is user defined and, therefore, contains an information block (IB). The program priorities for the test programs have been set to the same value, which is higher than that of any other user program. Thus, the test programs are of highest priority within the SOSOFT system.

A scanned interrupt from a testing station signifies that the next fuze is now in position for testing. In response to this interrupt, the scanned interrupt processor adds the needed test program to the Active List. Once given control, the test program performs the required tests for the fuze at its position.

The basic operations of a test program are to:

- (1) Update calibration factors,
- (2) Perform required tests, input and process results,
- (3) Provide the operator with visual indications of test results,
- (4) Reject fuzes under specified conditions, and
- (5) Stop the assembly process upon detection of certain errors.

The system operator has some control over which of these operations are performed via the recycle switch located at each test position.

#### 2.5.1 Update Calibration Factors

At the start of each test sequence, the test programs update the calibration factors for each calibrated test parameter. This consists of applying zero and plus reference voltages to the circuit to be tested, and inputting the corresponding output voltages. These outputs, called the current offset and the current plus reference output, are stored in the test-data blocks to be checked against restriction values by the background program. They are also used by \$TDP in calibrating analog inputs. Calibration factors are updated regardless of the state of the recycle switch.

#### 2.5.2 Perform Tests, Input and Process Results

In general, tests require the application of various analog signals to the fuze. This is accomplished by certain executive utility routines that allow the test programs to program buffered

storage registers controlling the analog sources. Test results are input in digital form from either a digital input channel or an analog-to-digital converter. This input is accomplished via EXUS. As data is input, test programs may employ \$TDP to process it. In most instances, this greatly reduces the burden on the test program. With the recycle switch in the recycle position statistical test data is not accumulated by the program.

To process test results and accumulate statistical data, certain parameters are required by the test programs. These parameters, along with all test statistics, are grouped into data blocks (DB's). Each testing position, as well as each individual test, requires its own DB. These DB's also include information required to perform the remaining three test program basic operations. The DB contents and organization follow:

Test Position Data Block---This DB contains information at the fuze level. It contains both test parameters and statistical data.

#### Parameters:

- (1) Number of fuzes comprising a sampling lot.
- (2) Number of rejects allowed per sampling lot.
- (3) Real-time data display flag.

#### Statistical Data:

- (1) Total number of fuzes tested.
- (2) Total number of fuzes rejected.
- (3) Total number of machine stops.
- (4) Correlational rejection data.

Individual Test Data Block.---This DB contains information at the individual test level. It contains test parameters and statistical data.

#### Parameters:

- (1) Minimum acceptance limit.
- (2) Maximum acceptance limit.

- (3) Number of consecutive test failures allowed.
- (4) Gain and offset calibration restriction values.
- (5) Automatic statistical display frequency.
- (6) Number of intervals in each frequency distribution.
- (7) Lower limit of each frequency distribution.
- (8) Upper limit of each frequency distribution.
- (9) Interval width of each frequency distribution,

#### Statistical Data:

- (1) Total number of test failures.
- (2) Number of test failures during this sampling lot.
- (3) Number of consecutive test failures.
- (4) Gain and offset calibration factors.
- (5) Frequency distribution for all test results in the previous sampling lot.
- (6) Frequency distribution for all test results in the current sampling lot.
- (7) Cumulative frequency distribution for all test results.
- (8) Individual failing readings for the current sampling lot.

#### 2.5.3 Provide Operator with Visual Indications of Test Results

Visual indications of test results are of two kinds-printed information and indicator lights. The printed information is displayed on either the line printer or the teletype. The indicator lights are part of the basic test station console at each test position.

Indicator Lights--Associated with each fuze test is a single pass/fail indicator, illuminated if the test is passed and extinguished if the test is failed. In addition, each test position has a reject indicator which is illuminated if the fuze just tested

is rejected. The major purpose of these indicators is to serve as error flags for the quality assurance (QA) engineer should the assembly process be stopped due to some error condition. The indicators are activated regardless of the position of the recycle switch.

Printed Information-There are three kinds of printed information that can be provided by a test program. These are:

- (1) Statistical display of the test position data.
- (2) Statistical display of an individual test's data.
- (3) Real-time individual test results.

The statistical data displays are provided automatically at a specified frequency ranging from every 50 fuzes to every 30,000 fuzes as specified by the operator. It is noted here that these displays can be produced upon demand at any time, by using the conversational control system. The details of these displays are discussed in section 2.6.

The real-time test results are a single line of output presenting the test readings in volts on a per fuze basis. For test results not measured in volts, some other indication of the result is presented. This output provides the QA engineer with immediate feedback as to the condition of test results. The output is optional for each test position and can be selectively initiated and terminated by the operator via the conversational control system. Real-time output is produced when requested regardless of the position of the recycle switch.

#### 2.5.4 Reject Fuzes under Specified Conditions

Each test program has the capability of rejecting fuzes under certain specified conditions. Associated with each of the individual tests performed by the program is a pass/fail criterion, which usually means simply a minimum and maximum acceptable reading. In most instances, the failure of any such test indicates that the fuze should be rejected. When the decision to reject a fuze has been made, the program lights the fuze-reject indicator at the test console and activates the fuze-reject punch. This punch physically alters the fuze so that no additional components will be added by other assembly machines. Once rejected a fuze will not be tested at any of the remaining test positions on the line.

### 2.5.5 Stop-Assembly Process upon Detection of Certain Errors

If certain error conditions are detected by the test program, it can bring the associated assembly machine to a halt. When this is done, a machine-fail light is activated to indicate that the machine has been stopped. Fo addition, a statistical data display for all failing tests will be published, with an indication of why the machine was stopped. The combination of the printed data and indicator lights affords the QA engineer a powerful diagnostic tool for quickly isolating and remedying the cause of the failures. When the recycle switch is in the recycle position, error conditions are not acted upon.

Presently, four types of errors can produce a machine stoppage:

- If the reject rate for a single sample lot exceeds a specified value;
- (2) If the number of consecutive failures for any individual test exceeds a specified value;
- (3) If a piece of hardware at the basic test station responds busy; and
- (4) If the tests to be made are not completed prior to probe opening.

Following is a description of the tests performed at each of the four test positions.

Test Position 1 (Probe 1)---At this position three fuze parameters, current, oscillator emitter voltage, and rf power are measured via an analog-to-digital converter (ADC) at test station one.

Test Position 2 (Probe 2)---At this position three fuze parameters--current, voltage at pin 6 of the integrated circuit, and fuze sensitivity are measured. The current and voltage are obtained via an ADC and the sensitivity is obtained from a digital input channel containing the peak-to-peak voltage that caused a firing pulse in the fuze. A dummy value of 40.96 V is entered into the sensitivity data block if no firing pulse occurs.

Test Position 3 (Probe 3)---At this position three fuze parameters--current, arming time, and modulation amplitude are measured directly; and one parameter, fuze noise rejection, is tested on a go/no-go basis. The current and modulation amplitude are measured via an ADC. The arming time is obtained from a digital input channel containing the time in milliseconds from fuze turn on and application of

a firing signal until the first firing pulse. If the fuze does not fire, a dummy arming time value of 2048 msec is entered into the arming time DB. The noise rejection test is a go/no-go test, but only one signal level is used. A noise signal is coupled to the fuze power supply, and the criterion for passing the test is that the fuze shall not fire. Determination of firing is from a digital input channel.

Test Position 4 (Final Test Chamber) --- The final test position consists of two test chambers that test fuzes alternately. One chamber tests a fuze while the other is being loaded with the next fuze to be tested. Fuze current, rf power, and fuze sensitivity are measured on every fuze, and arming time and noise rejection are measured on a sample basis. Current and power are measured via an ADC, and sensitivity, via a digital input channel containing the peak-topeak amplitude of the fuze firing voltage. A dummy value of 40.96 V is entered into the sensitivity data block if no fire pulse occurs. Arming time and noise rejection are measured at a sampling interval determined by the user and entered into the testing system via the conversational control system. Arming time is obtained from a digital input channel that contains the time in milliseconds from fuze turnon and application of a firing signal until the first firing pulse. If there is no firing pulse, a dummy arming time of 2048 msec is entered into the arming time DB. The noise rejection test is a go/no-go test in which the fuze shall not fire if a given noise signal is coupled to the fuze power supply voltage. Determination of firing is from a digital input channel.

A typical flow chart of a testing system program appears in appendix E. This chart shows the testing and decision sequence of the testing system program, which performs the tests at test position 3.

### 2.6 Data Display System (DADS)

The data display system (DADS) controls all formatted output of statistical data stored by the basic testing system. The output consists of three major sections: (1) the heading, (2) the station data, and (3) the parameter data.

### 2.6.1 Heading

The data display heading includes the date and time of output, the number of the probe for which data are being displayed, and a preamble informing the operator of the purpose for the output and the test parameter whose data are being displayed.

### 2.6.2 Station Data

Three cumulative frequencies are displayed as part of the station data. They are (1) the fotal number of fuzes tested at the station, (2) the total number of fuzes rejected at the station, and (3) the total number of computer-initiated assembly machine stops at the station. In addition, certain correlation data is displayed. These data are frequencies of occurrence of combinations of test failures. The combinations vary from station to station.

### 2.6.3 Parameter Data

Three formats are used to display parameter data: (1) for voltage measurements, (2) for time measurements, and (3) go/no-go measurements such as noise immunity.

Voltage Measurement Format---The first part of the output presents failure information--(1) the total number of fuze failures of the test, (2) the number of fuze failures within the present sampling lot, (3) the number of consecutive fuze failures of the test, and (4) the failing readings for the present sampling lot (1imited to 20 readings).

The second part of the output presents three frequency distributions of the test readings: (1) for the present sampling lot, (2) for the entire previous sampling lot, and (3) for representing the cumulative distribution over a period of up to a month. Frequency of occurrence and percent of total within each voltage interval are displayed.

The last part of the output presents the acceptance limits presently being used for the test. These consist of a maximum and minimum acceptable voltage reading.

Time-Measurement Format---The time format is much the same as the voltage format except that the unit of measurement is milliseconds rather than volts. However, the calibration factors are meaningless and will always display a gain of +1.000 and an offset of 0.00.

Go/No-Go Measurement---Part I of the data is the same as that for the other two formats, except that failing readings for the present sampling lot are not displayed. Instead, the number of failures of the test are presented for the present sampling lot, the previous sampling lot, and a cumulative total. Where possible, the kinds of failures have been separated into high and low failures. Parts II and III are meaningless; and, hence, are not displayed.

Appendix F contains examples of each of the three types of data display.

### 2.7 Conversational Control System (CCS)

The conversational control system (CCS) allows an operator with a valid "password" to communicate with SOSOFT on a real-time basis via the teletype keyboard. Through CCS, the operator is able to control certain system functions, and display and change selected system parameters.

### 2.7.1 Controllable System Functions

The following system functions can be concrelled by the operator:

- The addition or deletion of test programs from the system by changing the proper entry in the IBET table;
- (2) Output of real-time data from each test program independently initiated and terminated;
- (3) Output of statistical data displays for individual tests;
- (4) Output of the contents of all test station data blocks onto paper tape via the high speed or teletype punch, to permit day-to-day update of data;
- (5) Verification of binary tapes via parity and checksum validation on the high-speed or teletype reader;
- (6) Resetting cumulative data in the test station DB's to initial values;
- (7) Stopping assembly machines under computer control for end-of-day shutdown;
- (8) Re-initialization of the system at any time; and
- (9) Output of calibrations factors being used for each calibrated parameter.

### 2.7.2 Displayable Parameters

The system parameters that can be displayed and changed by the operator are:

- (1) The size and reject rate of a production sample lot;
- (2) The frequency of full tests at the final test station;

- (3) The number of consecutive rejects allowed for each parameter tested;
- (4) The minimum and maximum acceptance limits for each parameter tested;
- (5) The specified system offset and plus reference output for each calibrated parameter.
- (6) The interval at which automatic statistical data displays are published for each parameter tested.
- (7) The contents of the logical unit table, allowing online change of certain I/O device uses.

The fuze testing continues uninterrupted during the request and implementation of any of the above CCS functions.

In addition to the above operator actions, CCS allows the development programmer to cue the system on-line debug program into action, allowing him to selectively execute his program and alter it as needed. This appreciably speeds up the debugging of additions or alterations to the SOSOFT programs.

### 2.8 Reliability Monitoring System (REMSY)

REMSY, consisting only of the background program, monitors the reliability of analog measurements being made by SOSOFT. This is accomplished by comparing the current calibration factors for each analog channel with their corresponding restrictions. If a factor extends beyond the acceptable range, a calibration failure has occurred. This failure stops the associated assembly machine, illuminates the associated calibration fail light at the test station, and prints a message on the teletype indicating the type and location of the fail.

Each time a test program updates calibration factors, it sets a flag notifying REMSY to check the new factors. As long as the factors remain within the specified limits, the SOSOFT calibration technique employed in \$TDP will correct for drifts in the system hardware involved in analog mea.urements.

### 3. CONCLUSIONS

The software described in this report was initially formulated in conjunction with the testing system for the XM596 40-mm grenade proximity fuze. However, the software has been designed so that only

the actual fuze testing programs need be specifically designed for a given testing system. All executive—and service—type programs in the software are of a general nature and can be used, with little or no modification, in any generalized fuze testing system. For a specific example of the type of software system described helein, see appendix G. This appendix contains a symbolic listing of the software written for the Varian 620/i computer, which is used in the testing of the XM596 proximity fuze.

### APPENDIX A

### GLOSSARY OF COMPUTER SCIENCE TERMINOLOGY

Address	Numeric	representation	of	the	location	of
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a word in memory.

ASC II Code American Standards 8 bit character coding

scheme used for punched paper tape.

Binary Meaning two, as in the binary number system.

Binary Code Punched paper tape code consisting of eight

> binary bits, to be interpreted as a single binary number between 08 and 3778. This code can be used to represent a 16-bit

memory word as 2 binary frames.

Bit A single binary digit, either 0 or 1.

Buffer Contiguous area in memory either containing

data or reserved for incoming data.

Call The act of temporarily transferring control

to another program. The group of operations necessary to do this is termed a "call," also.

Central Processing Unit The portion of a computer that performs the

logical and arithmetic operations necessary

to correctly execute each computer instruction,

Checksum Error detection technique using the arithmetic

or logical sums of a group of codes. If the checksum computed for such a group during the load phase is found to differ from that

computed during the dump phase, it is said to

have a checksum error.

Debug Process of checking and correcting program

execution.

Driver A special program designed to control the

operation of a single peripheral device.

Entry Point Location at which the execution of a program

begins.

Execution

The process of performing the functions necessary to complete a desired operation within the computer. Both single instructions and entire programs are said to be "executed."

First Word Address

The address of the first location of some logical arrangement of memory locations-either a program, or an information table.

Hardware

Any piece of equipment.

In-Line Testing

Testing performed at points along the assembly line without requiring the removal of the object under test from the line.

Interface

Either a hardware or software "go-between" connecting two or more separate modules.

Interrupt

A signal within the computer signifying that the present operation should be temporarily interrupted as soon as possible to allow recognition of some other important occurrence. Interrupts produced within the computer are termed internal interrupts, while those produced apart from the computer are termed external interrupts. Usually, when more than one interrupt can occur within a single computer, each interrupt is assigned a priority, signifying which of a group of simultaneous interrupts should be processed first. This type interrupt structure is termed a priority interrupt structure.

Memory

A collection of binary-state components arranged in a logical fashion and capable of storing binary numbers of fixed length. The memory is organized into words, each word containing a fixed number of binary bits.

Module

An independent piece of hardware or software that becomes an integral part of a system when logically connected with other modules.

Octal

Number system with a base of 8.

Online

Applies to all operator actions performed under computer control.

Overflow Indicator

A binary indicator that signifies whether or not the result of an arithmetic operation was beyond the range of numbers capable of being represented in a single register.

Parity

A single-bit error-detection technique. Usually, a coded word is designed so that the number of binary bits set to 1's is always either odd or even. When this is the case, any code found to deviate from this ruly is said to have incorrect parity.

Peripherals

Those pieces of equipment that can operate under computer control but are not physically a part of the computer.

Pointer

A special location in the computer memory containing the address of some other location. The former is said to point to the latter.

Priority

A quantitative assignment of a position within a hierarchical structure.

Program

A set of computer instructions designed to perform a specific task.

Queue

A linear list for which all insertions are made at one end of the list; all deletions (and usually all accesses) are made at the other end.

Real Time

A time measurement with respect to the physical world. In general, the term is used to signify that certain actions taking place within the computer must meet time constraints imposed on them by other actions taking place apart from the computer.

Register

A set of binary-state components capable of storing a binary number of fixed length. Registers are employed to perform most logical and arithmetic operations within the computer's CPU.

Routine

Program.

Scanner

Hardware device for alternately interrogating the status of a group of other hardware devices

Software

Programs used to dictate certain computer

functions.

Time Sharing

The simultaneous employment of a single central processing unit by many independent users. The CPU's time is shared among all the users desiring control at any instant.

Word

A collection of binary bits residing at a particular address within the computer's memory. In the case of the Varian 620/i,

a word contains 16 binary bits.

### APPENDIX B

### GLOSSARY OF SOSOFT TERMINOLOGY

1.	Active List (AL)	-	Pointer-linked list of user programs desiring control of the central processing unit.
2.	Busy Address	-	Special return address from a sub- routine that is used if the software or hardware to be employed is busy.
3.	Control Word	-	Specially formatted 16-bit data word containing control information for the test station interface.
4.	Data Block	-	Set of information in each test program containing testing parameters and statistical data for each test performed.
5	Data Parameter Block	-	Set of information used by the input/ output control system to process I/O requests.
6.	Information Block	-	Set of data containing information for user programs for use by SOSOFT.
7.	Information Block Entry Table	-	Contains first word addresses of each user program in order of program number.
8.	Master Clock	-	Double precision software clock recording number of clock interrupts received.
9.	Scanner	-	Hardware device that interrogates basic test stations as to their fuzeready status.
10.	STAK	-	Portion of information block containing current hardware status for user program.
11.	System Program	-	A noninterruptible executive routine performing a single function. These programs do not contain an information block and are not handled according to a priority structure.

12. User Program

- Independent program prepared for use within the SOSOFT priority structure. These programs contain an Information Block; and each is assigned a unique Program Number.
- 13. Waiting List (WL)
- Pointer linked list of user programs desiring control of the central processing unit after a specified time delay.

### APPENDIX C

### ABBREVIATIONS

1.	ADC	-	Analog-to-Digital Converter
2.	AL	-	Active List
3.	BATS	-	Basic Testing System
4.	\$BFT	-	Busy Flag Table
5.	ccs	-	Conversational Control System
6.	CPU	-	Central Processing Unit
7.	DADS	-	Data Display System
8.	DB	-	Data Block
9.	DPB	-	Driver Parameter Block
10.	EWL	-	End of Waiting List
11.	EXUS	-	Executive Utility System
12.	FWA	-	First Word Address
13,	HAL	-	Head of Active List
14.	HWL	-	Head of Waiting List
15.	IB	-	Information Block
16.	IBET	-	Information Block Entry Table
17.	1/0	-	Input/Output
18.	IOCS	-	Input/Output Control System
19.	ISSY	-	Interrupt Servicing System
20.	LPR	-	Line Printer
21.	LU	-	Logical Unit
22.	\$LUT	_	Logical Unit Table

23.	MACK	-	Master Clock
24.	OF	~	Overflow Indicator
25.	PIM	-	Priority Interrupt Module
26.	PTP	-	Paper Tape Punch
27.	PTR	-	Paper Tape Reader
28,	QA	-	Quality Assurance
29.	RELS	-	Reliability System
30.	RETI	-	Real Time Priority Scheduling System
31.	SOSOFT	-	Software System Oriented to Fuze Testing
32.	TTY	-	Teletype
33.	WL	-	Waiting List

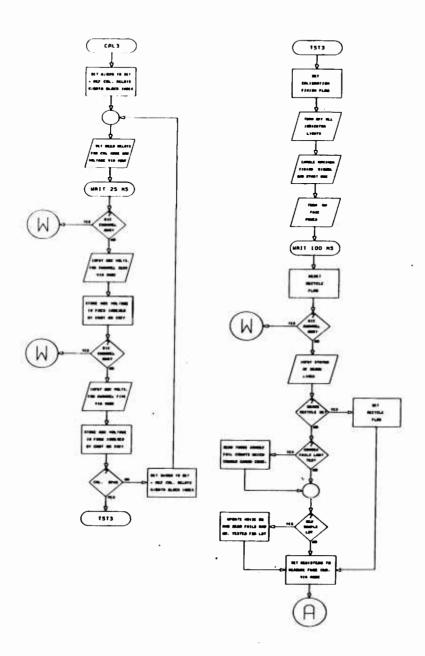
### APPENDIX D

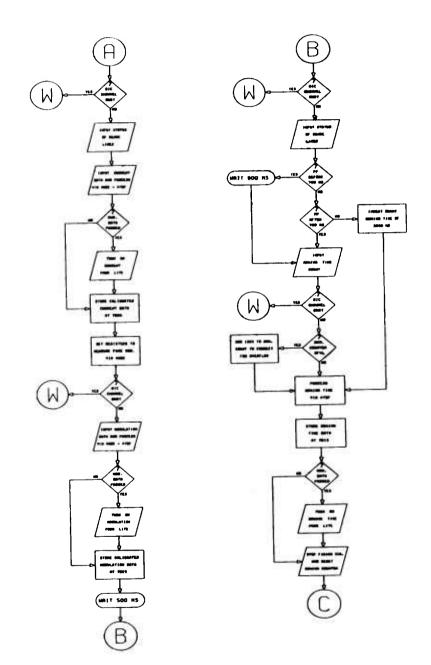
### SOSOFT PROGRAM NAMES

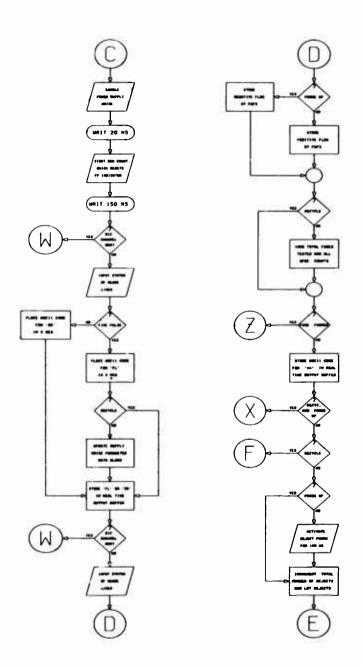
1.	\$AAL	-	Adds Programs to Active List
2.	\$ADC	-	Analog-to-Digital Converter Input Program
3.	\$ALWL	-	Transfers Programs from Active List to Waiting List
4.	\$BCD	-	Binary-to-ASC II Converter
5.	\$BIN	-	Binary Input Driver
6.	\$BOT	-	Binary Output Driver
7.	\$BUF	-	Buffered Storage Register Output Program
8.	\$CAT	-	Catastrophic Failure Routine
9.	\$CIP .	-	Clock Interrupt Processor
10.	\$CWD	-	Control Word Output Program
11.	\$DIC	-	Digital Input Program
12.	\$DIN	-	Input from Interface Program
13.	\$EXIT	-	Program Termination Processor
14.	\$10C	-	Input/Output Controller
15.	\$10T	-	Input/Output Termination Processor
16.	\$LPO	-	Line Printer Output Driver
17.	\$PFL	-	Power Fail/Restart Interrupt Processor
18.	\$ <b>PT</b> I	-	Puper Tipe Input Driver
19.	\$PTO	-	Paper Tape Output Driver
20.	\$REL	-	Reed Relay Output Program
21.	\$RES	-	Hardware Status Restore Program

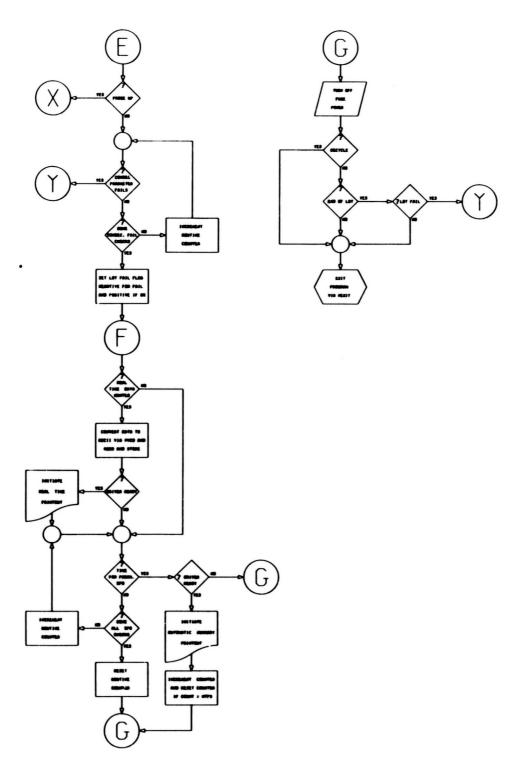
22.	\$SAV	-	Hardware Status Save Program
23.	\$SEN	-	Sense Line Input Program
24.	\$SGN	-	Signed, Decimal ASC II Converter
25.	\$SIP	-	Scanned Interrupt Processor
26.	\$SPO	-	Summary Printout Program
27.	\$TDP	-	Test Data Processor
28.	\$TIME	-	Current Time Computation Program
29.	<b>\$TT</b> I	-	Teletype Input Driver
30.	\$TT0	-	Teletype Output Driver
31.	\$VCD	-	Voltage-Reading-to-ASC II Converter

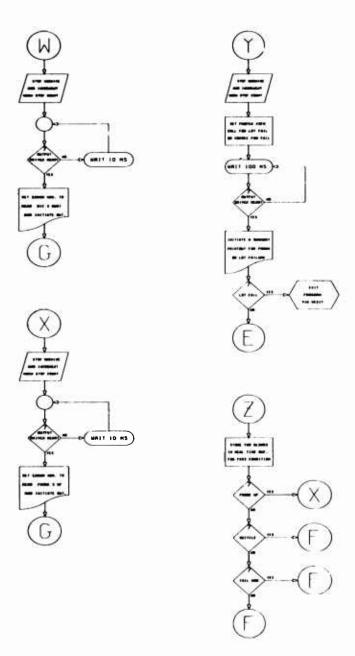
Appendix E. Test Program Flow Chart











AN-590 FUZE TESTING SYSTEM .

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# Appendix G. SOSOFT Program Listing

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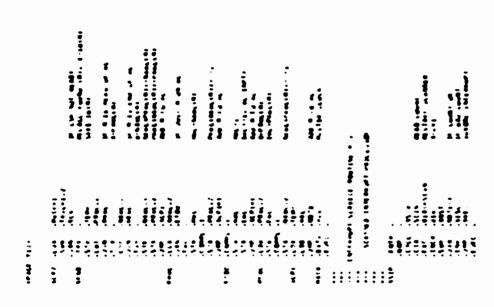
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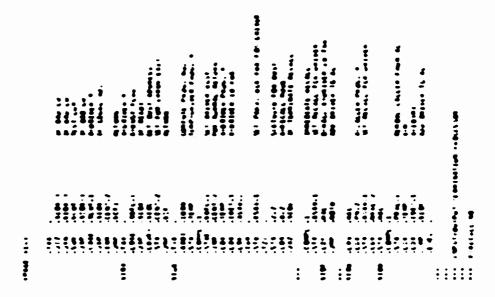
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FOR 4  LOND A  LOND B	,,,,,,			
FOR A  LORDRE O'S  LORDRE O'S  MA ST 7 FOR 100 MS  MA ST 7 FOR 100 MS  MA ST 8 A= 1  FOR MA FOR A DR  LE FOR	. 574			01873
FYON 4  LORONE O'S  WAIT FOR 100 MS  READT 7  THE LANANCIESS IN B  EST STAUS  THE CHARACTERS IN B  EST STAUS  TO THE CHARACTERS IN B  EST STAUS  TO THE CHARACTERS IN B  TO TH				01874
FIGN 6  MAIT FOR LOO MS  MAIT FOR ALOO MS  MAIT FOR ALOO  MAIT FOR ALOO  MAIT FOR ALOO  MAIT FOR MAIT FOR MAIL UPCODE  SET STATUS:  MAIT MAIL MAIL MAIL  MA	Contract Contract	3		01875
IGNORE O'S  MAIT FOR 100 MS  MAIT FOR 100 MS  MAIT FOR 100 MS  MAIT FOR 100 MS  MAIT FOR AGK  MAIT FOR AGK  MAIT FOR AGK  MAIT MAIN FOR S  MAIT MAIN FOR S  MAIT MAIN FOR MAIN FOR S  MAIT MAIN FOR MAIN FOR S  MAIT MAIN FOR MAIN FOR S  MAIT MAIN FOR MAIN FOR S  MAIT MAIN FOR MAIN FOR S  MAIN MAIN FOR S  MAIN MAIN FOR S  MAIN MAIN FOR S  MAIN MAIN FOR S  MAIN MAIN FOR S  MAIN MAIN FOR S  MAIN MAIN FOR S  MAIN MAIN FOR S  MAIN MAIN F	num Compo			01816
FIGN 8  IGNORE O'S  MAINTER ALOUNS  RAND 7  RAND 18  MO. SET AS-1  FROM WEALL IN MOST DEVICE, STATUS-1  TYPE LANGACIERS IN B  EAT THE LANGACIERS  EAT T				01877
IGNORE O'S  MAIT FOR 100 MS  READ TO SET A = 1  ENT LANGOTERS IN B  ELIT LANGOTERS  END BMFFER WHILL WARE = 0  AND BMFFER WHILL WARE = 0  AND BMFFER WHILL WARE = 0  AND BMFFER WHILL WARE = 0	0143			01878
IGRORE U'S  MIT FOR 100 MS  READT 2  END WE ALLI - MSY DE VECE STATUS - 1  END WE ALLI - MSY DE VECE STATUS - 1  END WE ALLI - MSY DE VECE STATUS - 1  ENTRE CHARACTERS IN B  ENTRE CHA		8 808		01879
IGNORE U'S  WIT FOR 100 MS  PRADT 2  PRADT 2  END SET A=1  END SET END S	. 4101			01880
MAIT FOR 100 MS MAIT FOR 100 MS MA STATUS1 TIPE LARROTERS IN B ELIT LARROTERS IN B ELIT LARROTERS IN B ELIT LARROTERS IN B ELIT LARROTERS IN B ELIT LARROTERS  ARE CALL NO GENTLE GENTLE	9 1851			18810
MAILE OF A 100 MS  READY 7  READY 7  READY 7  FOR URE ALLY - MUST DEFILE, SIATUS=-1  FOR URE ALLY - MUST DEFILE, SIATUS=-1  FOR MER FOR A A A  FOR THE CHARACTERS IN B  FOR		;	The state of the s	78810
MATERIALISMENT  PROMINE AND MESSIATUS=1  ENTRY E CHARACTERS IN B  BETT THE CHARACTERS IN B  BETT				01883
RAIL BUST DEVILE STATUS-1  FIVE LARACTERS IN B  EST THE LARACTERS IN B  EST THAN FAR  REAL NO  FRITTION ENTRY INTU SLAL  SET STATUS-7 FOR BAR UPCOVE  OUR STATUS -7 FOR BAR UPCOVE  FROM BUFFER WITH LAURE = 0  AND DAILS FROM BUFFER  AND BUFFER WITH BUFFER		IN TOR 100 HS		
STATUS  STATUS  SET TOM AGE  SET STATUS  S		_		100
FROM RAIL BUST DE VILLE STATUS 1  EIT  FIT  FAT  FAT  FAT  FAT  FAT  FAT  F		10, SEI A:-1		74410
- 1	4	ERRUR EAST. BUST DEVICE. STATUS :- 1		90013
ET FOR ACK  BET FOR ACK  BET FOR ACK  BET FOR ACK  BET FOR THE FOR  SET STATUS  BET FOR BAT INTO SAUL  SET STATUS  COL. BEELMAINED  FROM BAFFER WATTLE WARK = 0  AND DAILY FROM BAFFER  AND DAILY FROM BAFFER  AND DAILY FOR BAFFER		TYPE CHARACTERS IN B		01810
HET FOR AOK TEPARAN, FWA TEPARAN, FWA MED RIVER WO. TERMINATION ENTRY INTU SAUC SET STATUS=-2 FUR MAD UPCODE OL. BESTMAINS) TRANT		EXIT		01890
FOR BUFFE WHILE WIRE = 0  FROM BUFFE WHILE WIRE = 0  FROM BUFFE WHILE WIRE = 0  AND BUFFE WHILE WIRE = 0  AND BUFFE WHILE WIRE = 0  AND BUFFE WHILE WIRE = 0  AND BUFFE WHILE WIRE = 0				16910
JET FOR AOK  JET FOR AOK  SET STATUS  SET				26810
BET FOR ADK BEPARAN, FUA SET STATUS ARE SEQUENCE TERRIWATION ENTER THIS SLOLE SET STATUS:—2 FOR BAG UPCODE OF BEST WASHES FROM BUFFER WATEL WURG = 0 AND FROM BUFFER WATEL				61803
LOCK FURMAT  SET STATUS  AREGOLD NO. TERMINATION SHOULE  SET STATUS FOR BAD UPCODE  SET STATUS FOR BAD UPCODE  OUTPUT FOR BREFER WHILL WARG = 0  OUTPUT FOR BREFER WHILL WARG = 0	END OF CUTPUT	SET STATUS		01894
HE FOR ADK  TEPRAN, FUA  SET STATUS  ARE ELLUS  ARE ELLUS  ARE ELLUS  ARE ELLUS  ARE ELLUS  ARE ELLUS  ARE ERLUS  ARE ARE ARE ARE ARE ARE ARE ARE ARE ARE				91895
- 17 - 17 - 17 - 17 - 17 - 17 - 17 - 17				01896
- 10		TO A ACK		26810
AN EGAL BO.  TERMINATION ENTRY INTO SLOC.  SET STATUS=-2 FOR BAD UPCODE.  SET STATUS=-2 FOR BAD UPCODE.  TORRAL!  TORRAL!  OUTUY FROM BUFFER UNTIL BURG = 0  OUTUY FROM BUFFER UNTIL BURG = 0				01810
ER RING I I DE ENIGET INTO SLOLE SET STATUS=-2 FOR NAG OPCICIE  LOCK FURM.  LOCK FURM.  OUTURE FROM BUFFE WHILL WURG = 0 OUTUR FROM DAD'S FRUM BUFFER.		A. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5.		66910
TERRITARITOR ENTER INTU SLAL  SET STATUS=-2 FUN MAG UPCUCE  LOCK FURNAT  TONAL	!	T-DE INC.		00410
SET STATUS=-2 FUN DAD UPCODE LOCK FURMIT 108AL1 108AL1 0017UT FROM BUFFE GATIL WURG = 0 0017UT AND DAD'S FUM DUFFER		TERRITOR FOREST INTO CALL		10410
SET STATUS = 2 FOR BAD UPCODE LOCK FURMAT LOCK FURMAT LONAL! TOWAL! OUTPUT FROM BUFFE WHILL WIRE = 0 OUTPUT FROM BUFFE WHILL WIRE = 0				70610
LOCK FURNAT TOWAL!  TOWAL!  T		Set Status - Sub- was persus		50410
LOCK FURMIT  108AL1  108AL1  0017UF FROM BUFFE WHILL WIRE = 0  0017UF AND DADLY FROM BUFFER				10610
LOCK FURMIT  TOMAL!  TOMAL COL. BESIMBING)  DUTPUT FROM BUFFER GWTIL WURG = 0  DUTPUT MAKO NABUS FRUM BUFFER				7600
LOCK FURMIT TOWAL! TOWAL! TOWAL COL. BEST MAINS. OUTPUT FROM BUFF ER WATIL WURG = 0 OUTPUT FROM BUFF ER WATIL WURG = 0		The second secon		2000
LOCK FURMAT 108ALT 108A				
LOCK FURMIT  TOWAL!  TOWAL COL. BEST MAINS)  OUTPUT FROM SWEFER WATIL WURS = 0  OUTPUT MAKE WAS FROM SWEFER				*****
LOCK FURNAT  TORAL!  TORAL!  TORAL COL. BESIMBLING;  OUTUY FROM BUFFER WHILL WURG = 0  OUTUY MAD DUDGE FROM BUFFER	· FJEC ·			0.00
LOCK FURMIT  LONAL:  TOWAL:  T				11010
LOCK FURNAT 1084L1 1084L1 0017UT FROM BUFFER WHILL WURG = 0 0017FUT MAKO WASH FROM BUFFER				21610
BESTABLING) BUFFER UNTIL HURG = 0 BURFFER UNTIL HURG = 0	LINE PRINTER DA	II VER		01913
DECIMENC) SWFF ER WHILL HURG = 0 NARD FRUM BUFFER				\$16TO
ODE  TOPTIONAL!  TOPTIONALCOL. BESTMAINE?  TOPTIONAL COL. BESTMAINE?  TOPTION SWEFER WATLE WURG = 0  2 - DUTPUT MAKE WASH.	PRESENTE DE	I A BLOCK FURMA		01915
TOPTIONAL.  TOPTIONAL COL. BESIMBLES  TOPTIONAL COL. BESIMBLES  TOUTUT FROM BUFFER UNTIL WURG = 0  2 - DUTPUT MARD WARDS FRUM BUFFER	00 00	•		01916
COPTIONAL: COL. BEGINNING) COPTIONAL COL. BEGINNING) COPTIONAL COL. BEGINNING: COLPUT MAND WARDER WITH WING: COLPUT MAND WAND FRUN BUFFER	OIT S			01917
O COFTIONAL COL. BEGINNING)  1 = OUTPUT FROM BUFFE WHILE WHE = O  2 = OUTPUT FROM BUFFE WHILE WHE = O	4			81610
T TOPTIONAL COL. DESIMBLE)  1 = OUTPUT FROM BUFFER WATIL WIRE = 0  2 = OUTPUT MARD MARD FROM BUFFER	9 3 3			61610
1 = DUTPUT FROM BUFFER LAWING = D 2 = DUTPUT MAKD NARUS FRUM BUFFER	1813	(OPTIONAL COL. DEGIMENC)		07610
I - CUTPUT PROFILED WATER WILLIAM CONTROL - C				12 610
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и в м (ч и в п	MITH LF FIRST OF FORM WI CHAR, AT FWA MARD TIMES			£	F. 1	7681	MIAL	TOAL	TREE	38.E	IKAL Siak	S130	PARAB	TO BALL	3000	TE GAN ON COME	300 00 00 00	1F. 8AD DP C30E		# # # # # # # # # # # # # # # # # # #		3	-		0P C00t = 1	OF CODE = 2	TJ 0 LF	3	2	X = BUFFRF FRA	E S
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- CALL - SALUL   NO WAIT MEAT   LIME   - SER - O72.18 POUL!   MEADIN   - SER - O72.18 POUL!   MEADIN   - SER - O72.18 POUL!   - SER - O72.18 POUR!   - SER - O73.18 POUR!   - SER - SER - O73.18 POUR!   - SER			
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1.05 .270 .270 .270 .270 .270 .270 .270 .270	_	8-1 TU A	45079
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##17 = FUZE POUCH QU/OFF  ##17 SET TO 1 TURNS ON LITERATE SET IQ O TURNS OFF LITE?  LITE(2) = CURNERY VOLVAGE  LITE(2) = FOUR VOLVAGE  LITE(3) = FOUR VOLVAGE  LITE(3) = FOUR VOLVAGE  LITE(3) = FOUR VOLVAGE  LITE(3) = FOUR VOLVAGE  LITE(3) = FOUR VOLVAGE  LITE(3) = FOUR VOLVAGE  LITE(3) = FOUR VOLVAGE  LITE(3) = FOUR VOLVAGE  LITE(3) = FOUR VOLVAGE  LITE(3) = FOUR VOLVAGE  LITE(3) = FOUR VOLVAGE  LITE(4) = FOUR VOLVAGE  LITE(5) = FOUR	:	RR(2) = REJECT PURCH			<b>5 c</b>	7,00
## PROCESTOR LICENT ASSIGNMENTS ****  ### Control of Licent Assignments ***  #### Control of Licent Assignments ***  #### Control of Licent Assignments ***  #################################	:	RR(7) = FUZE POWER ON/OFF			•	200
Indicator Light Assignments   Indicator						27 00
SET 10					•	9000
(A) TEL TO 1 TUBES OF LITERED SET 10 0 TUBES OFF LITE)  LITE(1) = CHITTER VOLTAGE  LITE(2) = CHITTER VOLTAGE  LITE(2) = CHITTER VOLTAGE  LITE(3) = CHITTER VOLTAGE  LITE(3) = CHITTER VOLTAGE  LITE(3) = CHITTER VOLTAGE  FROM STATE  DATA - CHITTER VOLTAGE  DATA - CHITTER V		INDICATOR LIGHT ASSIGNMENTS			•	82.00
						6200
LITECTO : FRITTER VELLAGE LITECTO : FOR FAIL LITECT	1.	COLT SET TO 1 TORMS ON LITER	11 SET 10 0 THERS OFF LITE:			0000
LITE(2) = RF POWER  LITE(10) FUZE FAIL INDICATOR  FROCEAN INCOMMALION SACK  SAME  DATA A CALL  D		LITE(1) - EMITTER VOLTAGE			0 6	1100
FREE . FAIL IMPLIANCE		LITE(2) = RF POWER			•	200
- SPAC		LITECIO: FUZE FAIL INDICATOR			•	9800
PROCESS 1942 RAN 1.00 840CK  -57 8C -5  -50 74 -1  -50	- 3	, EJEC .			•	5800
1011	į.				-	7100
0014 .5  0014 .039  0014 .039  0014 .041  0014 .0  0014 .0  0014 .0  0014 .0  0014 .0  0014 .0  0014 .0  0018 .0	. :				•	1800
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	. \$6.20			10.	DC6.	. SALM.			100 TO 10	2110111		.023	.urp.	.4001	.1511	•	. 5060	.CAL 104			PREPARES 1651 PROGRAM FOR EMECALLON		50	. ALF.	.0200	SALM	. \$200	1088	. 546 14	.02	.ACF1	(SSEN-1 (BSTI)	ž. I.	.ncF1	.F11	1001.	.045	11161		!
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817 2 OF LSD1 SET 10 1
TURNS ON PUR PASS, LITE AND STORES ARES 4M LSD1
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FOR RECYCLE FLAG
IF RECTCLE
MACA = TESTED TMIS.MLD1
MACA = TESTED TMIS.MLD1
COUNT FOR CUMBER = PO IMBERVAL
COUNT FOR VLI SPO IMBERVAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CHECKS IF ANY PARAMETER RAILED
IF FUZE PASSES
GET. LITE DATA
*F401*2 +F44 OF P48 DATA
*REF1 GET RELTCLE FLAG
*BADC.1.(8SV1).(CFF1-1) MAKES P4R MEASURERENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      IF THUE INCH CORREL DATA
JOCH TUTAL REJECTS
JOCH TUTAL REJECTS
GET PROJE POSTITUM FLAG
IF PROSE UP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GET MELTCLE FLAG
GET PROME POSITION FLAG
IF PROME UP AND REATOLE
IF PROME UP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CLOSE REJECT PUNCH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         OPEN REJELT PUNCH
GET LITE DATA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                LITE FAIL LITE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   INIT 200 MS
                                                                                                                                                                                                                                                                                                                                CHECKS FOR FAILURE OF FUZE
                                                                                                                                                                                                                                                                                                                                                                                                            . SSEB. L . ( BS V1)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   .05F1-817L
.05F1-80FT
.FWZ1-5F0C
.FWY1-5F0C
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.05P1-88TL
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CALL
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00227 00228 00239 00237 00237 00237 00237 00237 00237

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CHECKS FOR ALARM SITUATIONS  CAST 1720  ST MONTHE COMPLEX  CAST 17	:			190341
1.72   1.72				29200
11   172		ACLES FUR ALARM SITE		5720
1.12   175				99790
10   10   10   10   10   10   10   10	-		MI MONITER CONNIES	**************************************
1.00   1.00	•	-		19200
1.00   1.00	• -			87290
1.00   1.00	• 1		CHE D. LONGE C. A.L. C.	1470
			16 TOD MARY CONCECURE METS	
1.04			INCO A INTO A & IN	200
- 1.4				60271
	•	-	ğ	94596
CHECK IF REAL THE GUIPUT MANTED  CHECK IF REAL THE GUIPUT MANTED  A. 100 . 105   105	•			\$1200
CHECK IF REAL TIME DUIPUT WANTED  1.0A .05F1-RT0F GET REAL TIME FLAG. 1.0A .05F1-RT0F GET REAL TIME FLAG. 1.1A 1			FAC - FOR LOT FAIL FUR DK	W 279
CHECK IF REAL TIME DAIPUT MANIED  1.0A .0SF1-RTOF .0ET REAL TIME FLAG. 1.4D .00 .00 .00 .00 .00 .00 .00 .00 .00 .0				## COM
CHECK IF REAL TIME OMPUT MANTED  A 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10	:			002.70
1.0		HECK IF REAL TIME ON	UTPUT EMPTED	00200
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I	ı	•		28200
- JATO - 1904			CET REAL TIME FLAG.	69299
- JAK - CRA1 - CRA1 - CRA1 - CRA1 - CRA1 - CRA1 - CRA1 - CRA1 - CRA1 - CRA1 - CRA1 - CRA1 - CRA1 - CRA1 - CRA1 - CRA1 - CRA1 - STCO. (TODA1) - (TODA1 - CRA1	•			*****
CALL -9VCO.(TD01).(RTD4-2) GET ASC  (CALL -9VCO.(TD01).(RTD4-2) GET ASC  (CALL -9VCO.(TD21).(RTD4-16)  (CALL -9VCO.(TD21).(RTD	•		IP READY FOR REAL LINE	58200
CALL ***********************************	• 1	-	THE PART CAN ACTUAL THE	71700
CARL *85C*(TO21)-(RTO10)  CARL *81C*(CAA1)  CARL *81C*(CAA1)  CARC IF TIME FOR SCHMARY PRINT OCT INTERVAL  A1 *LDA *RCF1  CARC IF TIME FOR SCHMARY PRINT OCT INTERVAL  *A2 *E11  *A2 *E11  *A3 *E11  *A4 *E11  *A5 *E1	. 7			
CHECK IF TIME FOR SUMMARY PRINT ON? INTERVAL  CHECK IF TIME FOR SUMMARY PRINT ON? INTERVAL  1. LDA - REFT			(A164614)	AN SAN
CHECK IF TIME FOR SUMMARY PRINT DAY INTERVAL.  CHECK IF TIME FOR SUMMARY PRINT DAY INTERVAL.  LDA - NCF1	•			0F 200
CHECK IF TIME FOR SUMMARY PRINT DGT LABERVAL.  A1 . LDA . RCF1	ú			002 91
CHECK IF TIME FOR SLOWMARY PRINT GLY INTERVAL  1, LDA - RCF1 GF7 RECTCLE FLAG  1, LDA - RCF1 IF ECYCLE  1, LDA - RCF1 IF	:			26260
CHECK IF TIME FOR SUMMAR! PRINT DS? INTERVAL.  11 .LDA - REF1	:			66700
11.10A - 4071 GE1 860761E FLAG  1.10A - 4071 GE1 860761E FLAG  1.10A - 10.51 GE1 8001114E GAMPLER  1.10A - 10.11 GE1 8001114E GAMPLER  1.10A - 10.11 GE1 80 F PARAN DB  1.10A - 5401.2 GOANT SPO  1.10A - 5401.3 GOANT SPO  1.10A - 5501 JF 7116E FOR 500  1.10A - 5501 JF 7116E FOR 500  1.10A - 706.1 GOANT SPO  1.10A - 706.1	1	***************************************	The second secon	76200
1. LDA - ACF. GET RECYCLE FLAG. 1. LDA - ACF. GET ROUTINE CAUNTER 1. LDA - 170.1. 1. LDA - 170		HELD IN THE YOU SE	MARKI FALM W. INTERTAL	CA 75 0
11 - LDA - ACF1   RECTCLE FLAG   LDA - ACF1   RECTCLE FLAG   LDA - ACF1   RECTCLE FLAG   LDA - ACF1   RECTCLE   LDA - ACF1   ACF	:			26.200
. JA 2 . E E E I I IF RECYCLE			ORT RECYCLE FLAG	86200
1204   1041   GT ROWILME GAMPLE   1784   1			IF RECYCLE	90 00 D
. 5.001 - HTP1   16.0000   PARAN DB   1.0000	1		GT ROUTING COMMITER	64600
. 55 WE . 117 P. 12000 F. 24 M. 1200	•			1000
. JAZ . 1.1 IF DOME	•			79.000
. LONE . SPOL	•	•	300 ±	00303
* ** *********************************	•	-	OET FUA OF PARAN DE	, 0030¢
. John . Spot LF Time Fox SPOT	• `	-	COUNT SINCE LAST SPO	00302
-18 -704 CHA1+3 CONTINE -17A -704 -704 -704 -704 -704 -704 -704 -704	1			90306
- JPW - (VA) - CONTINUE - JPW - (KA) - CONTINUE - SIA - TO-1 - RE-SI COUNTER	•			60307
. 124	•		Constitute	36.00
STA - TO4.				60m0p

STORES PRESENT DISPOSITION OF LITES WELLE FUF REG TURBS ON PRUPER LITE POWER WFF
GET RECYCLE FLAG
GET RECYCLE
GET 0-FUZES TESTED.-TWLS LUIT
LOT. S1.46 GET PROME POSITION FLAG INCR CURRELATION DATA NO PARAM DATA FLAG RROS CONSEL FAILS GET ' BLANK BLANK IF LOT FAILED OUTPUT ROBILINE TO INDICATOR LIGHTS SUMMERY PRINT DUT ROUTINE .05 P1 +C ORR UTILITY ROUTINES .574 .LSD1 .LSB .83 .CALL .9BUF.1 1031 44.21 EXIT ROUTINE (PAGE 007) ::::= :::::: 11.1 1131 11

			903 65
1001.	E .FP01.2	GET PREAMBLE FUA	99800
10		CET STA DE FUA	1950D
100	1 . \$5P0.1.(C1)		67600
. S TAE		RESETS PARAMETER .SPD ICOURT	00170 00170
			00372
	101		6183
246.			<u>\$7100</u>
-	·E11		4200
			1100
			P4 2037B
ERRO	ERROR ROUTINES		\$200 \$400
			80382
-	IF DIC CHAMMEL BUST		00303
146	.SFR	SELECTION OF SELEC	\$8100
10	ł		1866
1		MAIT TO MS	
1071		ADDRESS DF 1-0 DATA DLACK	
. CALL		PRINT ERROR NES SAGE	
	113.	. 1. 18	1600
1	1	6113	26192
			267A
E .	IF PROBE UP ILLEGALLY		
E E	1 .SFM1	STOP MACH	80308
101			64600
CALL		A 1 10 H	00480
1.01			
יכשור	. \$10C. (M151+2)		2000
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·STA			39700
?	· • • • • • • • • • • • • • • • • • • •		75700
		•	29,00
			25.400
11 10	IF LOT FAIL OF COMSECUTIVE PARAMETER CATA	INC. PARAMETER CAT.	£9700
			11400
-		STOP HACHINE	C1 %0
		CEL PREAMBLE FUE	57500
		A GOT TIAN	00415
		THE TOTAL	<b>\$1760</b>

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- 10 174 - 01000000	!	- }	- 1	MEAL TIME DATA FLAG
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DATA   -100000	ADATA.		CUMULATIVE FREG. DAST.	90824
DATA	n o			52500
THILIDE PARAMETER STORAGE AND  THILIDE PARAMETER STORAGE AND  THILIDE PARAMETER STORAGE AND  THILIDE PARAMETER FALLS  DATA			Complement of Colombia Date Colle	97500
			CONTRACTOR AND BAIN	7500
PULLISE PARAMETER STORAGE ANEA  PULLISE PARAMETER STORAGE ANEA  DATA  DA	ATAG.			42 34 C
POLITION OF STORAGE ANEA  POLITION OF STORAGE ANEA  DATA	. E JEC			00.500
	:			00531
### ### ### ### #### #################				00532
OLIVE   PARAMETER STORAGE AREA   OLIVE   OLI				00533
DATA     FAILURES PER LOS   DATA     FAILURES PER LOS   DATA     FAILURES PER LOS   DATA     FAILURES PER LOS   DATA     TA   DATA   DATA   DATA   DATA   DATA   DATA   DATA   DATA   DATA   DATA   DATA   DATA   DATA   DATA   DATA   DATA   DATA   DA		SE PARAMETER STOR	IACE AREA	78500
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10.71   0	1		Chint Libo Con Amico Air	\$600 PM
DATA   -010000   -00 AL PRAMETER FALLS    -011A   -0				2000 2000
DATA  DATA .			TOTAL PARAMETER FAILS	96590
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(PAGE 94.2)

.51a .1014 (NECK FOR FUZE FALL (NECK FOR FUZE FALL	.1014	STORE PUR DATA		
	DR FUZE FAIL			
	70.			
CALL	.85En. 3.8574	CHECK IF PROBE DOWN		
78 7	. \$4.01			
	.Fup4	IF MEATINER PROBE DOWN IS LONE OF		
	.8664	GET RECICLE FLAS		
205.	.RC04	IF RECYCLE		
	DSP4+NITE	INCR . TESTED TALS.LOT		
=	.DSP4+NOF7	INCH TUTAL FUZES LESTED		
=	.FWC4.SPOL	SPO INTERNAL COUNT		
=	.FuP 4+SPOC	INCR SPU INTERNAL	,	
	PHS-SPDC			
800 - FDB	.STF4	GET FULL TEST FLAG		
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	746.		IF MOISE ABU SER FAIL	# 220
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David J. Buscher					
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13. ABSTRACT	•				
Software techniques used in an automa	ted real-tim	ne fuze tes	sting system		
are discussed. Most of the techniques are					
circuit being tested and the computer cont					
the software described was initially design					
proximity fuze, only the actual fuze testi designed for a given testing system. The	ng programs	need be sp	OSOFT are		
functionally organized into eight major su	bsystemsre	eal-time pr	riority		
scheduling system, interrupt servicing sys	stem, input/o	output cont	crol system,		
executive utility system, basic testing sy	stem, data-	display sys	stem,		
conversational control system, and reliabi	llity monitor	ring system	n.		

Unclassified

Security Classification  4. KEY WORDS		LINKA		LINK		LINKC	
	ROLE	WT	ROLE	wT	ROLE	wī	
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Computer fuze testing	8	3					
Computer ruze testing	ľ	ľ	1			1	
Fuze-testing software	8	3			l		
	65.5				ł	1	
Automatic fuze testing	8	3			l	!	
Consideration accessed	8	2			l	l	
Real-time fuze testing	°	- 1			l		
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